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### **ABSTRACT**

Non-destructive inspection and profiling of a surface of a material or an object is performed by forming an image of a selected area of the surface of the material, and processing the image in a computer to create usable information.

- 5 The image of the selected area is formed by: applying a selected polymer mixture to a clear substrate; applying the polymer mixture on the clear substrate to the selected area; allowing the polymer mixture to polymerize and form a mold; lifting the polymerized polymer mixture mold from the selected area; passing light through the formed mold to form an image of the surface; and registering the
- 10 formed image on an electronic media for further handling.

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